



Missouri
Department of
Natural Resources

City of Memphis
Power Plant Name: Memphis
Electric Generation and Emissions in 2011

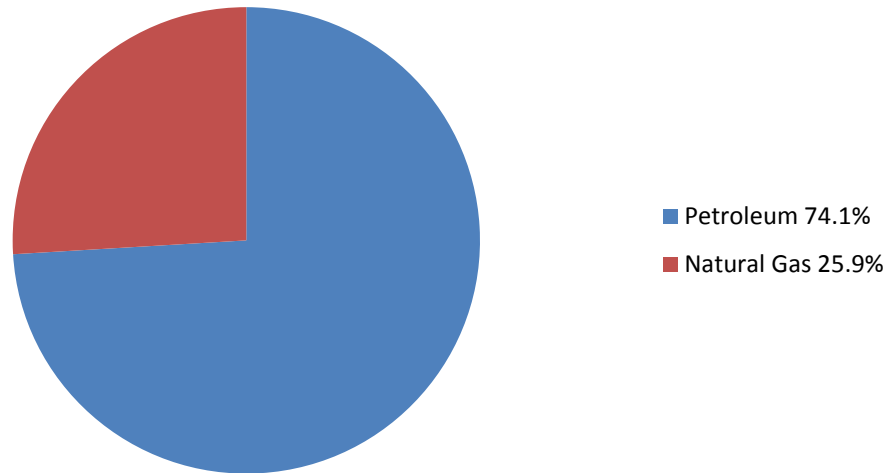
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal						
Natural Gas	189	26.0%	26.0%	15	25.9%	25.9%
Petroleum	539	74.0%	74.0%	44	74.1%	74.1%
Nuclear						
Other						
Non-renewable total	728	100.0%	100.0%	59	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	728		100.0%	59		100.0%

Fuel Type	Physical Units	Number of Units
Natural Gas	MCf	189
Distillate Fuel Oil	Barrels	93



Net Generation by Fuel Type, 2011 for Memphis





Power Plant Nameplate information for Memphis

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Memphis</i>		<i>All Operating Generators</i>			35.2
Memphis	Scotland	1	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	2.4
Memphis	Scotland	10	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	4.0
Memphis	Scotland	11	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	4.0
Memphis	Scotland	12	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	1.6
Memphis	Scotland	13	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	4.0
Memphis	Scotland	3	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	0.8
Memphis	Scotland	6	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	3.6
Memphis	Scotland	7	Internal Combustion Engine (diesel,	Operating - in service	4.4



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			piston, reciprocating)		
Memphis	Scotland	8	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	5.2
Memphis	Scotland	9	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	5.2



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Emissions from Electricity Generated in 2011: Memphis

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Memphis	853	218	8	2

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Memphis	0	0.0000	0.0000

Identified Flue Gas Desulfurization (FGD) controls installed on Memphis power plant

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Memphis power plant

Plant	Control Equipment
	No FGP Controls Installed



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Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>